#### Publication No. 75-e43 WA-26-1092

CALVENTED FORMULA FOR DETERMINE TORMULA

TOK A PIPE STANIS

Memo To: Gerry Caulkins

From: Allen Moore

Subject: STP Survey at Vader Sewage Lagoon

Date: January 2, 1975

MUTARUM WANNER WANNE A grab sample was taken from the Vader sewage lagoon on October 30, 1974,

Because there was no flow meter, careful measurements for effluent flows were taken. This flow should give a good basis to calculate total daily flows because of the use of pumping water from a well to keep the lagoon at a constant level. The large size of the lagoon should have a stabilizing effect on all laboratory parameters.

High conductivity is due to the saline water coming from a well to keep an outflow during dry weather. Due to the broken effluent pipe leading down the slope to Olequa Creek, sewage was running over the surface to the edge of the creek - - a distance of about 45 feet.

The attached STP Survey Report Form shows the laboratory results.

AM:eme

Attachment

#### STP Survey Report Form

## Efficiency Study

City Vader  Receiving Water	Plant Type Lago	on Pop. Serv	ved	Design	
Receiving Water	Olequa Creek	Perennial	X Intermi	Capacity ttent_	and the second s
Date 30 Oct. 74 Sur					
Comp. Sampling Fre					
Weather Conditions					
pass of raw sewage					
Reason for bypass_					
Was DOE Notified?					
		Operation		-	
Total flow 1.673 g	ps=144, 547 gpd	How measured	Measurement	and calculation	
Maximum flow			23 /3 /4 h had a d	441 0 43	
Minimum flow					
Pre Cl <sub>2</sub>					
	Field	Results			
	Influe			Effluent	
Determinations			an Mav	Min. Mean	ar . Od
Temp °C pH (Units) Conductivity (µmhos/cm²) Settleable Solids (mls/1)				Fiedi	11.0 7.8 2400
	Laboratory Resu	lts on Composi	tes		
	Influent	Effluent	% Re	duction	
Laboratory No.	er Papalita participa processiones es a accidentación compresa de la participa	74-4326			
5-Day BOD ppm COD ppm F.S. ppm F.N.V.S. ppm F.S.S. ppm N.V.S.S. ppm pH (Units) Conductivity (umhos/cm²) Turbidity(JTU's)	Филоприя подорожного при	21.0 58.0 1082 980 26 5 7.9 2000	development value fortune development deve		

## Laboratory Bacteriological Results

Colonies/100 ml (MF)   Cl_2 Residual   Fecal   Fecal			aboratory r	sacter 10100	JICAL I	Results				
Additional Laboratory Results    NO3-N ppm - 1.20	Lab No.		Total	Fecal	Fe	ecal	Cl <sub>2</sub> Residua	il		
NO3-N ppm - 1.20 NO2-N ppm - ND NH3-N ppm - 0.15 T. Kjeldahl-N ppm - 0.66 O-P04-P ppm - 1.36  OPO4-P ppm - 1.36  Operator's Name	74-4326	1100					0.4			
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NO2-N ppm - ND NH3-N ppm - 0.15 T. Kjeldahl-N ppm - 0.66 O-PO4-P ppm - 0.71 T-PO4-P ppm - 1.36  Operator's Name Paul McGinnis Phone No. 295-3222  Jess Brown - Mayor Furnish a flow diagram with sequence and relative size and points of chlorination.  CATTLE OLEGAN CREEK  CARCERNATION  Type of Collection System  Combined X Separate Both Estimate flow contributed by surface or ground water (infiltration McD  Plant Loading Information  Annual average daily flow rate(mgd) Peak flow rate(mgd)  Dry No information Dry  Wet Wet			Additional	Laborator	ry Resu	ılts				
NH3-N ppm - 0.15 T. Kjeldahl-N ppm - 0.66 O-POL-P ppm - 0.71 T-POL-P ppm - 1.36  Operator's Name	NO <sub>3</sub> -N p	pm -	1.20							
T. Kjeldahl-N ppm - 0.66 O-PO+P ppm - 0.71 T-PO-P ppm - 1.36  Operator's Name	NO2-N p	pm -	ND							
T-POG-P ppm - 1.36  Operator's Name	T. Kjel	dahl-N ppm	- 0.66							
Operator's Name Paul McGinnis Phone No. 295-3222  Jess Brown - Mayor Furnish a flow diagram with sequence and relative size and points of chlorination.  CATALL OLEGUA CALEK  CALCRINATION  Type of Collection System  Combined X Separate Both Estimate flow contributed by surface or ground water (infiltration like information MGD  Plant Loading Information  Annual average daily flow rate(mgd) Peak flow rate(mgd)  Dry No information Dry  Wet Wet										
Jess Brown - Mayor Furnish a flow diagram with sequence and relative size and points of chlorination.  CONCRINATION  Type of Collection System  Combined X Separate Both Estimate flow contributed by surface or ground water (infiltration No information MGD  Plant Loading Information  Annual average daily flow rate (mgd) Peak flow rate (mgd)  Dry No information Dry  Wet Wet				<u> </u>						
Furnish a flow diagram with sequence and relative size and points of chlorination.  CHOCGINATION  Type of Collection System  Combined X Separate Both Estimate flow contributed by surface or ground water (infiltration No information MGD  Plant Loading Information  Annual average daily flow rate(mgd) Peak flow rate(mgd)  Dry No information Dry  Wet Wet	Operator'	s Name			P	hone No	295-3222			
Combined X Separate Both Estimate flow contributed by surface or ground water (infiltration No information MGD  Plant Loading Information  Annual average daily flow rate(mgd) Peak flow rate(mgd)  Dry No information Dry  Wet Wet			LAGCEA	ATION )		m				
Annual average daily flow rate(mgd)  DryNo information  Face or ground water (infiltration No information MGD  Plant Loading Information  Peak flow rate(mgd)  Dry No information  Wet Wet		3 V -								
Plant Loading Information  Annual average daily flow rate(mgd) Peak flow rate(mgd)  DryNo information Dry  Wet Wet	Combined X SeparateBoth				Estimate flow contributed by sur- face or ground water (infiltration					
Annual average daily flow rate(mgd) Peak flow rate(mgd)  Dry No information Dry Wet Wet						No informa	tion	MGD		
Annual average daily flow rate(mgd) Peak flow rate(mgd)  Dry No information Dry Wet Wet			Plant Lo	ading Info	ormatio	on				
Dry         No information         Dry           Wet         Wet	Annual ave	erage daily				-	(mgd)			
Wet Wet	DryN	Dry No information				Dry				
	Wet									

#### STATE OF WASHINGTON

# DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

DATA SUMMARY

ORIGINAL TO:
A.W. Mosse
COPIES TO:
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•••••
LAR FILES

			DATA	SUMMA	KY				A.l	B FILES
Source VALER STP  Date Collected 10-30-34			Collected By Awm							
			Goal, Pro./Obj							
Log Number: 7u-	4321			1		1				STORET
Station:										
рН	7.9				ļ					00403
Turbidity (JTU)	16.									00070
Conductivity (umhos/cm)@250	2,000									00095
COD	58.		<del></del>							00340
BOD (5 day)	21.		-							00310
Total Coliform (Col./100ml)	20 ZO				ļ					31504
Fecal Coliform (Col./100ml)	410									31616
NO3-N (Filtered)	1.20									00620
NO2-N (Filtered)	ND									00615
NH3-N (Unfiltered)	0.15									00610
T. Kjeldahl-N (Unfiltered)	0.66									00625
0-P04-P (Filtered)	0.71		at dan							00671
Total PhosP (Unfiltered)	1.36		······							00665
Total Solids	1085									00500
Total Non Vol. Solids	980					ļ				
Total Suspended Solids	26									00530
Total Sus. Non Vol. Solids	5		andra water vales, we sufficiency when							
Note: All results are in A Convert those market	PPM unle d with a	ss oth * to	nerwis PPB (	se spec (PPM X	ified.	. ND i	ls 'Non to entr	e Dete y into	cted" STORET	· ·

Summary By / Kylm D. Well Date 12-16-24